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APPLICATION NO. FILING DATE 10/500,936 03/25/2005		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
		Ayrookaran J. Poulose	GC717-2-US	
7590 12/08/2005			EXAMINER	
Kamrin T MacKnight			MOORE, WILLIAM W	
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Palo Alto, CA 94304-1013			1656	

DATE MAILED: 12/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)		
Office Action Summary			10/500,936	POULOSE, AYR	POULOSE, AYROOKARAN J.	
			Examiner	Art Unit		
			William W. Moore	1656		
Period fo	The MAILING DATE of this commun or Reply	nication appe	ars on the cover sheet w	vith the correspondence a	ddress	
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD IN CHEVER IS LONGER, FROM THE IN INSIGN SO IT IN IT I	MAILING DATES of 37 CFR 1.136 munication. statutory period will y will, by statute, c	TE OF THIS COMMUNI (a). In no event, however, may a apply and will expire SIX (6) MOI ause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this of BANDONED (35 U.S.C. § 133).		
Status						
1)⊠	Responsive to communication(s) fil	ed on <i>25 Mai</i>	rch 2005.			
2a)□			ction is non-final.			
3)□	·—					
	closed in accordance with the pract	ice under <i>Ex</i>	parte Quayle, 1935 C.[D. 11, 453 O.G. 213.		
Dispositi	on of Claims					
4)⊠	Claim(s) 1-18 is/are pending in the	application.				
	4a) Of the above claim(s) is/a	are withdrawr	from consideration.			
5)	Claim(s) is/are allowed.					
	Claim(s) is/are rejected.					
	Claim(s) is/are objected to.					
8) 🔀	Claim(s) <u>1-18</u> are subject to restrict	ion and/or ele	ection requirement.			
Applicati	on Papers					
9)	The specification is objected to by the	ne Examiner.			· · · · · · · · · · · · · · ·	
10)	The drawing(s) filed on is/are	: а) 🗌 ассер	ted or b) objected to	by the Examiner.		
	Applicant may not request that any object	ection to the dr	awing(s) be held in abeya	nce. See 37 CFR 1.85(a).		
_	Replacement drawing sheet(s) including				` '	
11)∐	The oath or declaration is objected t	o by the Exa	miner. Note the attache	d Office Action or form P	TO-152.	
Priority ι	ınder 35 U.S.C. § 119					
	Acknowledgment is made of a claim ☐ All b)	for foreign p	riority under 35 U.S.C.	§ 119(a)-(d) or (f).		
a)(1. ☐ Certified copies of the priority	documents l	nave heen received			
	2. Certified copies of the priority			Application No		
	3. Copies of the certified copies				Stage	
	application from the Internation					
* S	see the attached detailed Office action	on for a list of	the certified copies not	received.		
Attachmen	t(s)					
	e of References Cited (PTO-892)			Summary (PTO-413)		
	e of Draftsperson's Patent Drawing Review (F nation Disclosure Statement(s) (PTO-1449 or			s)/Mail Date nformal Patent Application (PT)	O-152)	
	No(s)/Mail Date	0/05/00/	6) 🔲 Other:		,	

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DETAILED ACTION

Election/Restrictions

Restriction is required under 35 U.S.C. §§ 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted. The Groups are as follows:

- 1. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 7 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 2. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 23 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 3. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 26 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 4. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 28 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 5. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 29 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 6. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 30 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding

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- the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 7. Claims 1-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 31 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 8. Claims 1-3, 5-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 47 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 9. Claims 1-3, 6, 12-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 61 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 10. Claims 1-3, 5, 6, 9, 12-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 66 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 11. Claims 1-3, 6, 9-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 69 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 12. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 73 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 13. Claims 1-3, 5, 6, 9-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 82 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 14. Claims 1-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 85 in the sequence of subtilisin

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- BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 15. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 88 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 16. Claims 1-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 90 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 17. Claims 1-3, 5-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 92 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 18. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 93 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 19. Claims 1-3, 5-9, 12-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 105 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 20. Claims 1-3, 5-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 113 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 21. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 139 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.

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- 22. Claims 1-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 148 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 23. Claims 1-9 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 149 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 24. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 150 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 25. Claims 1-3, 5-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 151 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 26. Claims 1-3, 6-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 174 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 27. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 178 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 28. Claims 1-3, 5-9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 200 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 29. Claims 1-3, 5-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 201 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding

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- the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 30. Claims 1-3, 6, 9-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 203 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 31. Claims 1-6, 9-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 231 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 32. Claims 1-6, 9-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 233 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 33. Claims 1-3, 6, 9-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 258 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 34. Claims 1-6, 9-12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 267 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.
- 35. Claims 1-6, 9, 12 and 15-18, drawn in part to a subtilisin modified by an amino acid substitution at a position corresponding to position 273 in the sequence of subtilisin BPN', a detergent composition comprising the subtilisin, a polynucleotide encoding the subtilisin, an expression vector comprising the polynucleotide, and a host cell transformed with the expression vector.

The inventions listed as Groups 1-35 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: No single modified subtilisin, and no subset of modified subtilisins, recited in the several claims is disclosed to have a distinguishing, or special, functional characteristic conferred by a substitution

at a recited position that is not shared by another modified subtilisin where a substitution occurs at another recited position. Where no modified subtilisin of Groups 1-35 shares a same or corresponding technical feature that is special with another modified subtilisin of Groups 1-35, there is no unity of invention among the inventions of Groups 1-35.

A telephone call was made to Ms. Kamrin T. MacKnight on 7 December 2005 to request an oral election to the above restriction requirement, but did not result in an election being made. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Conclusion

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William W. Moore whose telephone number is 571.272.0933 and whose FAX number is 571.273.0933. The examiner can normally be reached Monday through Friday between 9:00AM and 5:30PM EST. If attempts to reach the examiner by telephone are unsuccessful, the examiner's Supervisory Primary Examiner, Dr. Kathleen Kerr, can be reached at 571.272.0931. The official FAX number for all communications for the organization where this application or proceeding is assigned is 571.273.8300. Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571.272.1600.

William W. Moore 8 December 2005 IASHAAT T. NASHED PHD.
PRIMARY EXAMINER